

Light efficiency:



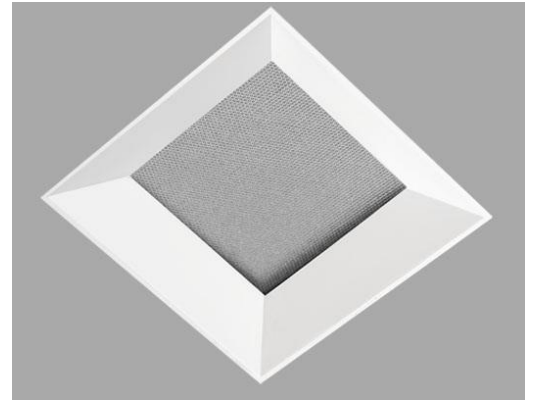
Output: 779 lm

Light quality:

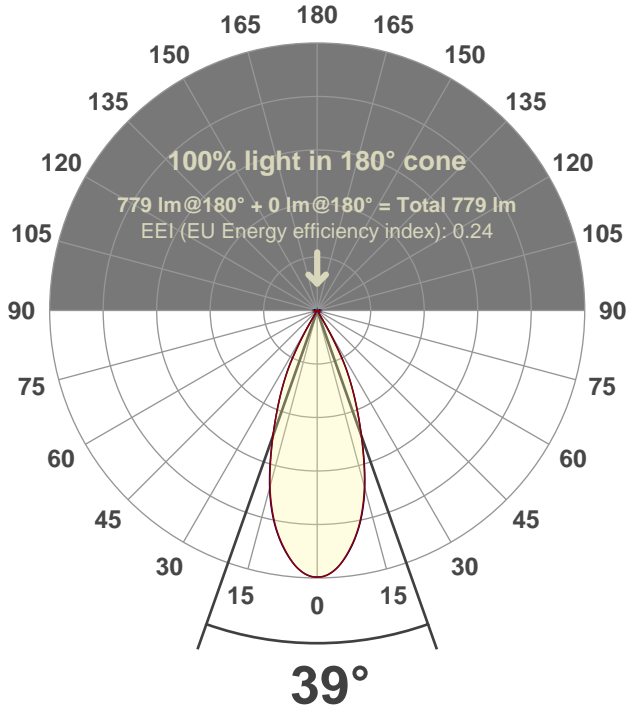


Peak: 1829 cd

Power: 15.0 W



Beam angle



Test number:

CR4D-S-OR-A14-30k-40 (GRO-AD-FL-SQ)

Luminaire Model:

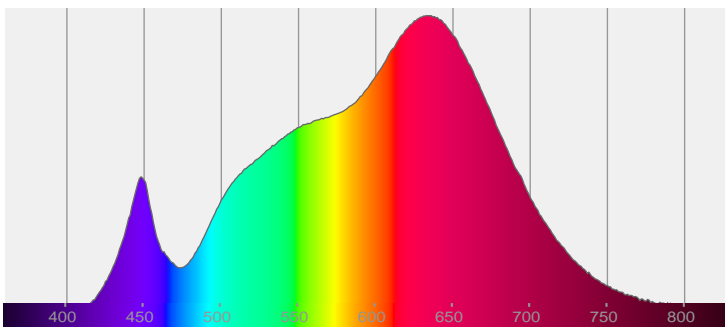
Core 4" Square Open Regress A14 30 to 19k 40°

Date and time:

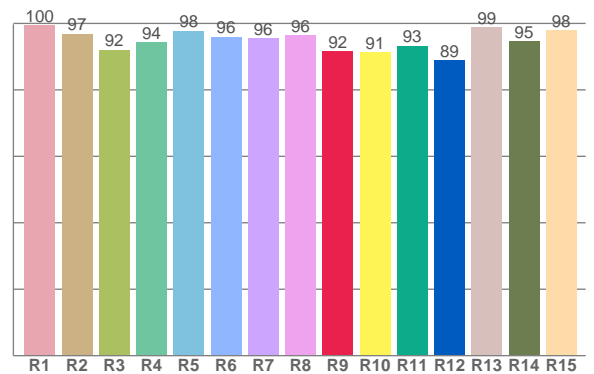
5/4/2017 4:02:07 PM

LUM: 779

Spectra



CRI: 96.1 (R1-R8)

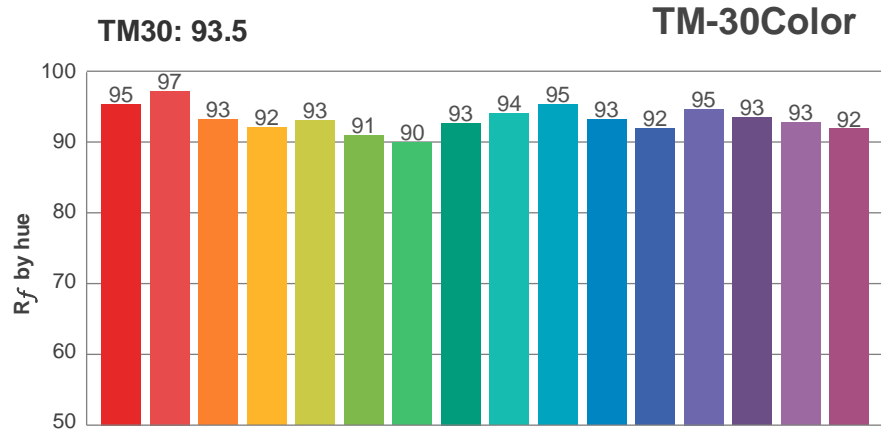


Color parameters

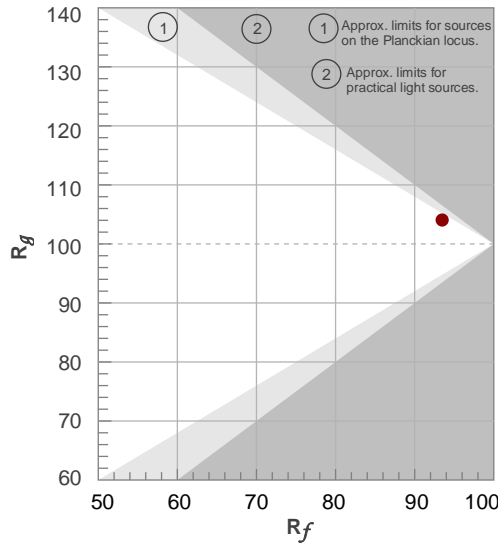
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.1	91.6	93.5	104.1	93.3	0.436	0.404	0.250	0.347	-0.0002

R_f 93.5
Fidelity index R_f

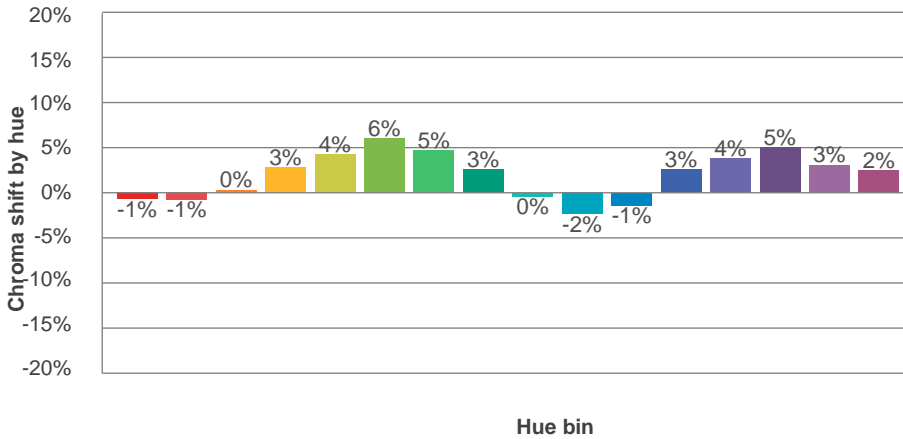
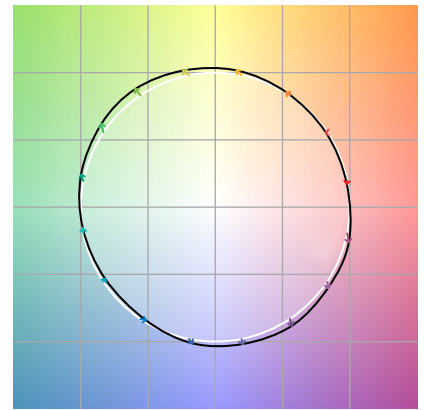
R_g 104.1
Gammut index R_g



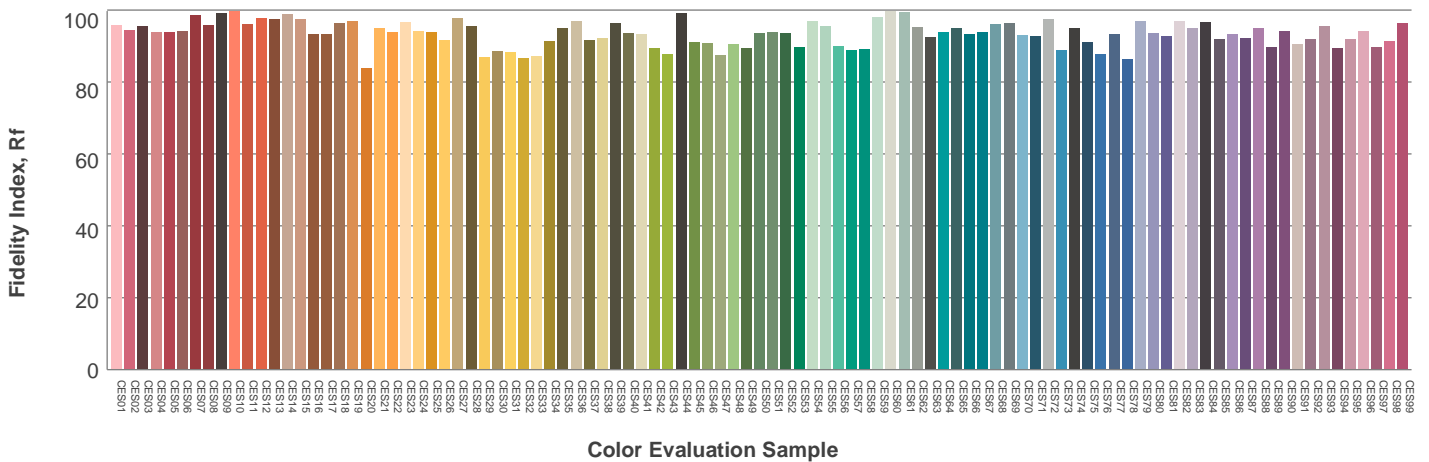
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	-1%	1%
3	93	0%	3%
4	92	3%	4%
5	93	4%	4%
6	91	6%	1%
7	90	5%	-4%
8	93	3%	-4%
9	94	0%	-4%
10	95	-2%	-1%
11	93	-1%	4%
12	92	3%	3%
13	95	4%	0%
14	93	5%	-2%
15	93	3%	-3%
16	92	2%	-6%



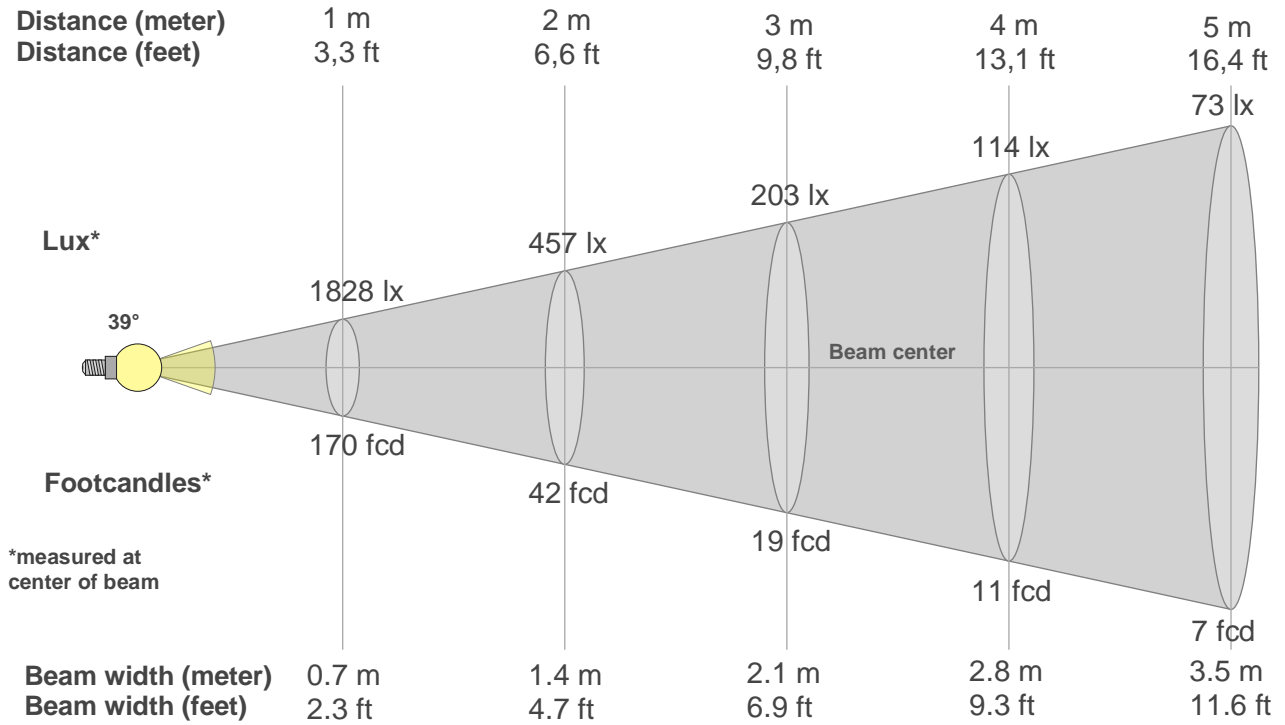
Color vector graphics



Color distortion



Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1828lx	457lx	203lx	114lx	73lx	51lx	37lx	29lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
169.8fcd	42.5fcd	18.9fcd	10.6fcd	6.8fcd	4.7fcd	3.5fcd	2.7fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1828	1818	1782	1721	1643	1555	1448	1323	1179	1024	874	737	609	482	329	182	54	27	21	18
100%	99%	97%	94%	90%	85%	79%	72%	65%	56%	48%	40%	33%	26%	18%	10%	3%	1%	1%	1%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1828	1817	1781	1723	1648	1559	1455	1332	1188	1031	876	732	604	481	340	163	48	26	21	18
100%	99%	97%	94%	90%	85%	80%	73%	65%	56%	48%	40%	33%	26%	19%	9%	3%	1%	1%	1%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1828	1818	1782	1721	1643	1555	1448	1323	1179	1024	874	737	609	482	329	182	54	27	21	18
100%	99%	97%	94%	90%	85%	79%	72%	65%	56%	48%	40%	33%	26%	18%	10%	3%	1%	1%	1%

Intensities in 270° c-plane

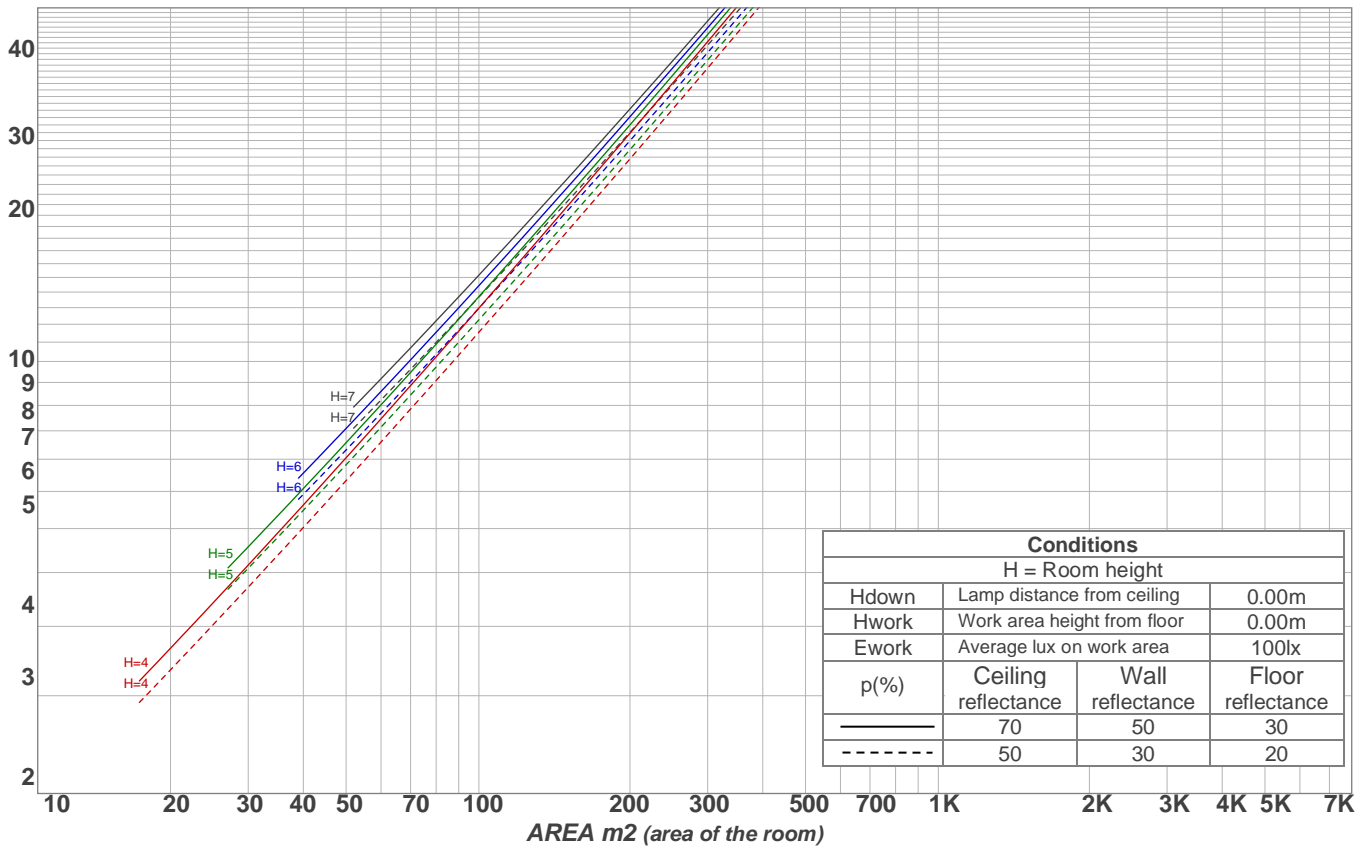
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1828	1817	1781	1723	1648	1559	1455	1332	1188	1031	876	732	604	481	340	163	48	26	21	18
100%	99%	97%	94%	90%	85%	80%	73%	65%	56%	48%	40%	33%	26%	19%	9%	3%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39°	59.7°	64.5°	99.6%	98.7%

Light planning

Luminaire budgetary diagram

LAMPS (number of lamps)
50



Luminaire budgetary diagram
AREA m2 (area of the room)
Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)																	
	Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	88	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	74	72	77	74	72	70
9	85	77	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68
10	82	75	70	67	81	74	70	67	73	69	67	73	69	66	72	69	66	65

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
161 lm	341 lm	238 lm	23.7 lm	7.53 lm	3.95 lm	1.69 lm	1.02 lm	0.526 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.5	18.0	17.6	18.2	18.4	17.2	17.7	17.3	17.9	18.1
	3H	17.5	18.2	17.9	18.4	18.5	17.2	17.8	17.5	18.0	18.2
	4H	17.7	18.3	18.1	18.5	18.7	17.3	17.9	17.7	18.1	18.3
	6H	17.9	18.4	18.2	18.7	19.1	17.5	18.0	17.8	18.3	18.7
	8H	18.0	18.4	18.3	18.8	19.1	17.5	18.0	17.9	18.3	18.7
	12H	18.0	18.5	18.4	18.9	19.3	17.6	18.1	18.0	18.5	18.9
4H	2H	17.4	18.0	17.7	18.2	18.4	17.1	17.7	17.5	17.9	18.1
	3H	17.7	18.1	18.0	18.5	18.9	17.3	17.8	17.7	18.1	18.6
	4H	17.8	18.3	18.3	18.7	19.2	17.5	17.9	17.9	18.3	18.8
	6H	18.1	18.6	18.6	18.9	19.3	17.7	18.2	18.2	18.5	18.9
	8H	18.2	18.7	18.7	19.0	19.4	17.8	18.3	18.3	18.6	19.0
	12H	18.4	18.7	18.9	19.1	19.6	18.0	18.3	18.5	18.7	19.2
8H	4H	17.9	18.3	18.4	18.7	19.0	17.5	18.0	18.0	18.3	18.7
	6H	18.3	18.6	18.8	19.0	19.5	17.9	18.2	18.4	18.6	19.2
	8H	18.5	18.7	19.0	19.2	19.9	18.1	18.3	18.6	18.8	19.5
	12H	18.8	19.0	19.4	19.5	20.1	18.4	18.6	19.0	19.1	19.7
12H	4H	17.8	18.2	18.3	18.6	19.0	17.5	17.8	18.0	18.2	18.7
	6H	18.3	18.5	18.8	19.1	19.7	18.0	18.2	18.5	18.7	19.3
	8H	18.5	18.7	19.1	19.2	19.8	18.1	18.3	18.7	18.8	19.4
Corrected glare indices referring to 779 lm total luminous flux											